ARMAUTOV, M.V.; DUDNIK, R.L., red.; MAZUROVA, A.F., tekhn.red.

[Spetregraphic determination of germanium in raw minerals]
Spektregraficheskee epredalenie germaniia v mineral'nom syr'e.
Hevosibirak, Ind-ve Sibirakoge etd-niia AM SSSR, 1959. 60 p.
(MIRA 13:6)

(Germanium--Spectra)

YAVORSKIY, I.A., kand. tekhm.nauk, etv.red.; DUDNIK, R.L., red.; MAZUROVA, A.F., bkhn.red.

[Problems in the use of Siberian fuels for power production]
Voprosy energotekhnologicheskogo ispol'sovaniia topliv Sibiri.
Otv.red. I.A.IAvorskii. Movosibirsk, Ind-vo Sibirskogo otd-niia
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1. Akademiya nauk SSSR. Zapedno-Sibirskiy filial, Movosibirsk. Transportno-energeticheskiy institut. (Siberia---Power engineering)

ABRAMOVICH, D.I.; DUDNIK, R.L., red.; NOVAK, V., tekhn. red.

[Waters of the Kulunda Steppe] Vody Kulundinskoi stepi. Novosibirsk, Isd-vo Sibirskogo otd-niia AN SSSR, 1960. 211 p. (MIRA 14:7)

(Kulunda Steppe-Water supply)

KIREWSKIY, L.V., doktor fis.-mat. nauk, otv. red.; DUDNIK, R.L., red.; MAZUROVA, A.F., tekhn. red.

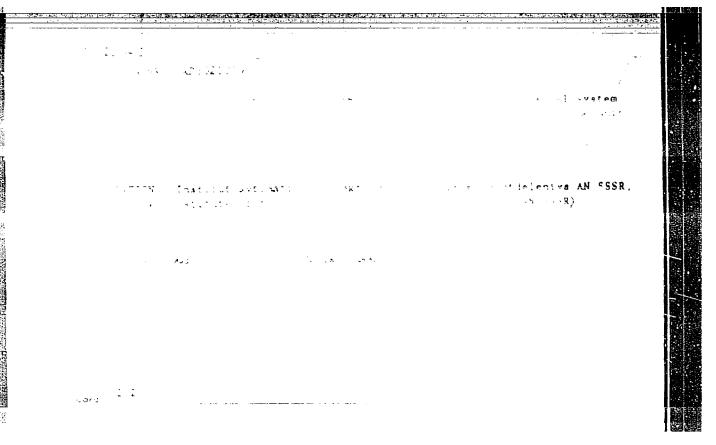
[Materials of the All-Union Conference on Ferromagnetic Substances]
Materialy Vsesoiusmogo soveshohaniia po magnituoi strukture ferromagnetikov. Krasnoyarsk, 1958. Movosibirsk, Ind-vo Sibirskogo otdniia AM SSSR, 1960. 249 p. (MIRA 1417)

1. Vsesoyumnoye soveshchamiye po magnitnoy strukture ferromagnetikov. Krasmoyarsk, 1958. (Magnetic materials) (Ferromagnetism)

KOTYUK, Andrey Fedorovich; MIZTUK, L.Ya., kand. tekhn. nauk, otv. red.; DUDNIK, R.L., red.; MAZUROVA, A.F., tekhn. red.; VYALIKH, A.M., tekhn. red.

[Analysis of airborne electric prospecting charts by the induction method] Analis skhem aeroelektrorasvedki metodom induktsii. Otv. red. L.IA.Hiziuk. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1961. 113 p. (MIRA 15:3) (Aeronautics in geology) (Electric prospecting)





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The frequency band of systems with a double continuous signal conversion. Isv. SO AN SSSR no.6. Ser. tekh. nauk no.2:3-12 165. (MIRA 18:11)

l. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

DIDNIK B.M., kendidet tekhnicheskikh nauk, dotsent; KUCHEROV, P.S., kandidet tekhnicheskikh nauk, otvetstvennyy redsktor; YARKOVSKAYA.

Z.B., redsktor; CHCKHAMOVSKAYA, T.I., tekhnicheskiy redsktor

[Planning in enterprises of the coel mining] Planirovanie na predpriistiiskh ugol'noi promyshlennosti. [Kiev] Ind-vo Kievakogo goe. univ. im. T.O.Shevchenko, 1957. 208 p. (MLPA 10:10)

1. Chlen-korrespondent Akademii nauk USSR (for Kucherov) (Coel mines and mining)

DUDBIK, Tina Mitrofanovna, kand.tekhn.nauk; STARIKOV, Lenin Alekseyevich, kand.ekon.nauk; Michieffev, Vadia Vasil'yevich, gornyy insh.; SUROVA, V.A., red.isd-va; IL'INSKAYA, G.M., tekhn.red.

[Productive capacity of mines and its utilisation] Proisvodstvennye moshchnosti shakht i ikh ispol'sovanie. Moskva, Ugletekhizdat, 1958. 112 p. (MIRA 12:4)

1. Kafedra ekonomiki i organisatsii gornogo proisvodstva Khar'kovakogo inshenerno-ekonomicheskogo instituta (for Eudnik, Starikov, Meshentsev).

(Coal mines and mining)

DUDNIK, T.M.; STARIKOV, L.A.; MEZHENTSEV, V.V.; DOPPEL'MAYYER, K.K.; STEPUN, A.O., otv.red.; OSVAL'D, E.Ya., red.izd-va; LOMILIMA, L.M., tekhn.red.; SHELYAR, S.Ya., tekhn.red.

[Principles of the analysis of mine economics] Osnovy snalisa khosisistvennoi deiatel nosti shakhty. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1959. 103 p. (MIRA 12:12) (Mining industry and finance) (Mine management)

PYATKIN, A.M., kand. tekhn. nauk; POLYAKOV, P.I., insn.; DUDNIK, T.M., dotsent, kand. tekhn. nauk; KHOKHLOV, N.P., insh.; ASTAKHOV, A.S.

Readers' response to the article by A.S. Astakhov "Economic efficiency of mining machinery."; "Ugol'", 1962, No.12.
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IGNATENKO, N.; DUDNIK, V.

Tables for calculating the ash content of the absolutely dry substances of grain products. Muk.-elev.prom. 26 no.7:16-17 Jl '60. (MIRA 13:8)

1. Machal'nik TEhK Vasil'kovskoy mel'nitsy No 10 (for Ignatenko)
2. Machal'nik Kiyevskogo oblastnogo upravleniya Goskhlebinspektsii (for Dudnik).

(Grain--Analysis)

DUDNIK, V., polkovnik, kand.istoricheskikh nauk

Inculcating work habits in the students of military engineering schools. Komm.Voorush.Sil 1 no.4:63-65 F '61. (MIRA 14:8)

(Aeronautics, Military-Study and teaching)

(Russia--Air force--Political activity)

DUDNIK, V.F.

SHAPOSHBIKOVA, O.V.; DUDBIK, V.F.

Processing paraffinic fuel oils in an atmospheric distillation unit. Neftianik 2 no.5:13-14 My '57. (MIRA 10:5)

1. Machal'nik ustamovki Mo. 9 Grossenskogo ordena Trudovogo Krasnogo Zmaneni meftepererabatyvayushchego zavoda. (for Shaposhnikova) 2. Machal'nik tsekha Mo. 2 Grossenskogo ordena Trudovogo Krasnogo Zmaneni meftepererabatyvayushchego zavoda. (for Dudnik).

(Petroleum--Refining)

DUDHIK, V. H. Furnaces, Electric Emelting "A New Method of Continuous Smelting of Various Kinds of Alloys in One Melting Furques," V. M. Dudnik, Kirovsk Plant in the Urals, & p "Prom Energet" No 5 Previous practice required cleaning furnace before changing to different type of aluminum alloy. Shows this practice to be minecessary, and gives figures showing resultant saving in electricity and increase in output. Suggestion was awarded a fifth prize in All-Union competition. THEI_

GONCHARENKO, V.K., LUR'YE, D.A., DUDNIK, V.M.

Froblems of the specialized production of molding materials in the Ukraine. Lit. proize. no.11:7-8 N '64. (MIRA 18:8)

LAZARINKO, A.S.; KHOMBUKO, A.D. [Khomenko, O.D.]; PROSKURA, Z.V.; DUDNIK, V.N. [Dudnyk, V.M.]; HECHIPORUK, M. Te. [Hechyporuk, H.Yu.]

Effect of menilite shales on growth and certain physiological processes in farm crops during their initial stages of development according to the data obtained in plant culture experiments in 1951. Pratai Inst. agrobiol. AN URSR 2 [pt. 2]:33-53 | 53. (MIRA 11:7) (Shale) (Pield crops)

GREBIUSKIY, S.O.; DUDNIK, V.N.; SKOROKHODOVA, I.A.; KHITROVA, T.M.

Biology of kok-saghyz in wide strip plantations. Dop. ta pov. L'viv. un. no.5 pt.2:23-26 '55. (MIRA 9:10)

(Kok-saghys)

DODUIE, V.H.

Effect of bemsene hexachloride on the growth and development of potatoes and kidney beans. Biul.Olav.bot.sada no.20:115-118 55. (MRA 8:9)

1. Botanicheskiy sad L'vovskogo gosudarstvennogo universiteta.
(Potatoes) (Beans) (Bensene bezachloride)

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UR/0051/66/020/004/0678/0684

AUTHOR: Zholkevich, G. A.; Dudnik, V. P.

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ORG: none

В

TITLE: Production and properties of blue-glow ZnS-Cu sublimate electroluminors

SOURCE: Optika i spektroskopiya, v. 20, no. 4, 1966, 678-684

TOPIC TAGS: ginc compound optic material, luminor, vacuum sublimation, light excitation, optic brightness, volt ampere characteristic

ABSTRACT: The authors describe a single-step method of obtaining a blue-glow luminor by sublimation from ZnS-Cu powder (brand FK-106). The sublimation was in a quartz tube 55 mm in diameter and 60 cm long (Fig. 1) in a vacuum 10-4-10-8 mm Hg. The preparation of the samples for optical investigations is briefly described. The method offers good reproducibility and elimination of undesirable impurities through the use of relatively low temperature. Excitation of the luminor with a dc and ac field 2-5 x 10° v/cm yielded a blue glow throughout the luminor with a brightness of 30 nit and a spectral maximum near 475 nm. The brightness increased with the voltage much more steeply than the current. Microscopic observations have shown that the electroluminescence occurs through the entire volume of the sublimate. When excited with ac, the brightness was produced

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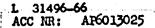
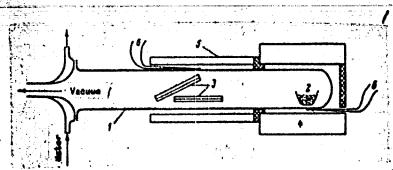


Fig. 1. Diagram of setup to sublimate the luminor. 1 - Quartz tube, 2 - crucible with sublimated luminor, 3 - substrate for the sublimate, 4 - high temperature oven, 5 - low temperature oven, 6 - thermocouples.



in peaks which were in phase with the voltage. In the case of dc, at medium and high brightness the dependence of the brightness on the current was quadratic. The authors thank A. G. Col'dman for suggesting the topic and a discussion of the results. Orig. art. has: 7 figures.

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ALEKSANDROV, Grigoriy Petrovich(Aleksandrov, H.P.]; DUDNIK, Vera <u>Hikolayovna</u>[Dudnyk, V.M.]; KITYK, Vasiliy Ivanovich; SURZFTK, Grigoriy Dmitriyevich [Surshok, H.D.]. Prinimal uchastiye SHEVCHENKO, Yu.V.; PORFIR'YEV, V.B., akademik, otv. red.; MEL'NIK, G.F.[Mel'nyk, H.F.], red. isd-va; DAKHNO, Yu.B., tekhn. red.

[Kalussite, a new potassium fertilizer]Kalushyt - nove kaliine dobryvo. [By]G.P.Alekaradrov ta inshi. Kyiv, Vyd-vo Akad.nauk URSR, 1962. 133 p. (MIRA 16:3)

1. Akademiya nauk Ukr. SSR (for Porfir'yev)
(Ukraine—Kalussite)

DUDNIK, V.P.

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24,3500 (1137,1138)

Hol'dman, O.H., Dudnyk, V.P., and Proskura, O.I.

AUTHORS: TITLE:

On frequency characteristics of the brightness of

electroluminescent cells with zinc-sulfide phosphors

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 6, 1961, 761 - 763

TEXT: The frequency characteristic of an electroluminescent cell with a ZnS phosphor is mainly determined by its capacitance being almost linear (in case of a constant voltage), viz. i = 2 sfVC. The frequency characteristic of the brightness B cf a cell is approximately given by the formula B = afk, where a snd k are constants $(0 \le k \le 1)$. If a resistor is connected in series with the cell, a maximum appears on the frequency characteristic at a frequency that is lower, the greater the ballast resistance; the brightness decreases fast with frequencies higher than that corresponding to maximum brightness. Insertion of a capacitance in parallel with the ballast resistor, leads to a certain linearization of the characteristic.

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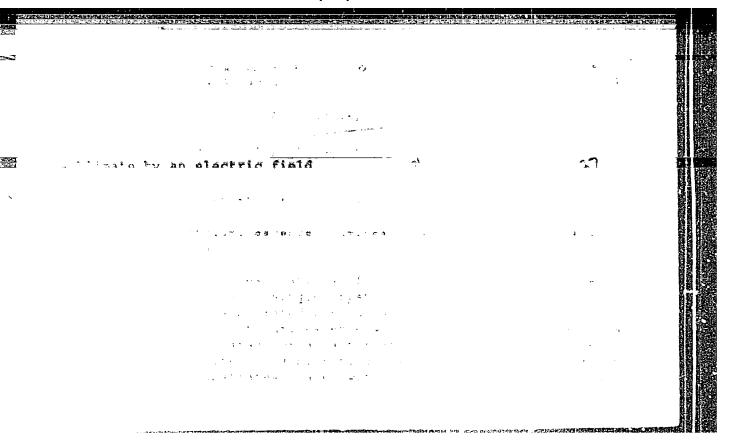
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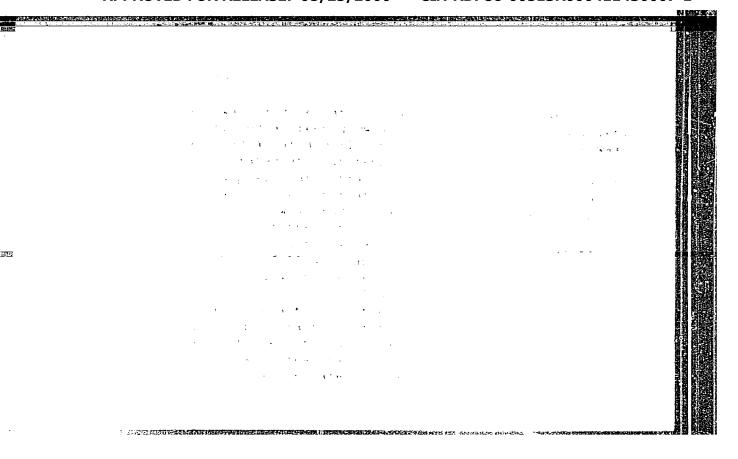
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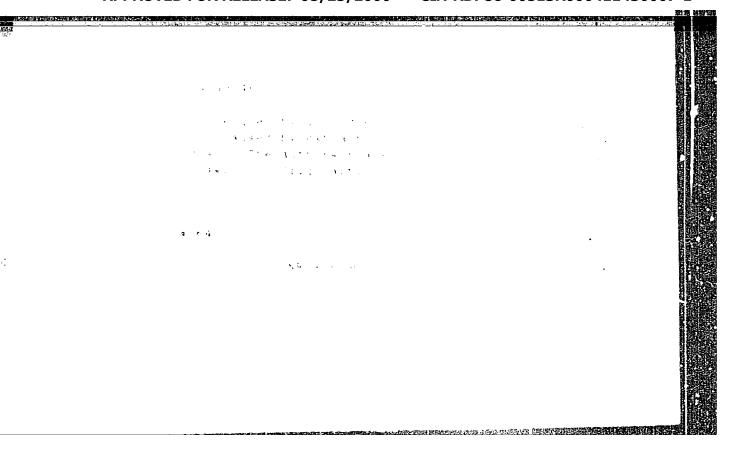
Thereby it is possible to regulate the capacitance (in a certain interval), so that the brightness becomes practically independent of the frequency. It is expedient to form a resonance circuit, by inserting an inductance. This has the following advantages: a) The voltage at the cell is increased (three- to tenfold) as compared to the source voltage; b) The brightness is greatly increased (a hundredfold); c) The current source is more efficiently used; d) The electroluminescence yield is higher. The frequency characteristics of electroluminescence mechanism. Thus, if dissimilar luminescent centers are present (ZnS-Cu, Mn), the frequency characteristics under similar electrical conditions, but in different spectral regions, have different exponents k. The frequency characteristics for the variable luminescence-component and for its constant component are in a different ratio, depending on the luminescence relaxation process. There are 4 figures.

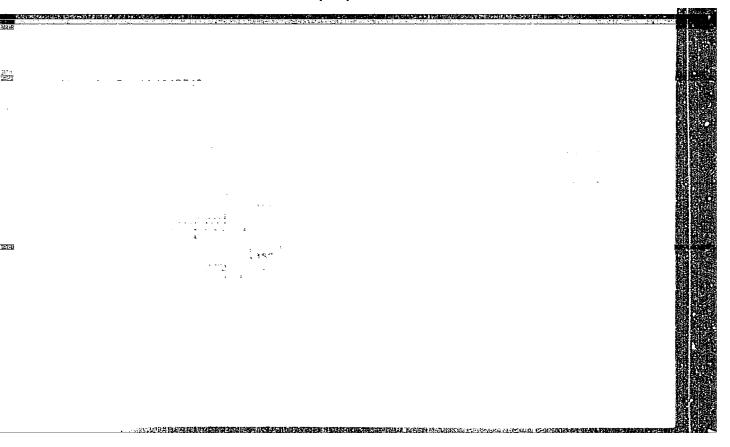
ASSOCIATION: Instytut fizyky AS UkrRSR (Institute of Physics of the AS UkrSSR, Kyyiv) [Abstractor's note: Essentially complete translation]

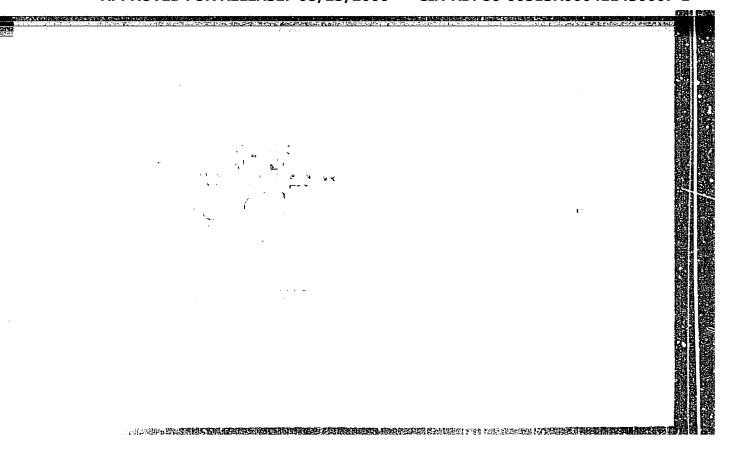
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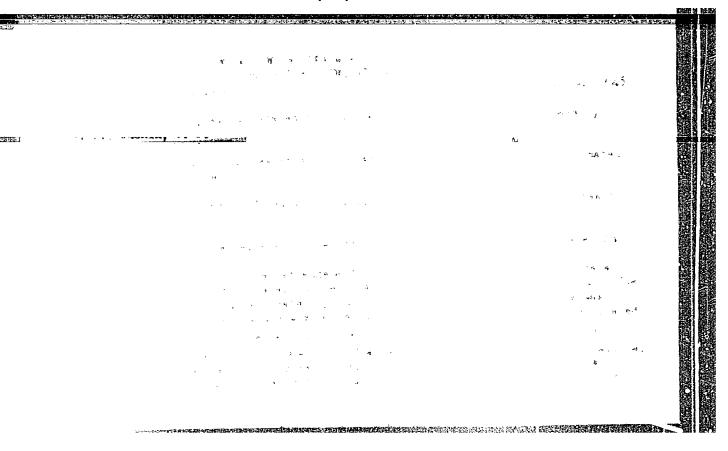


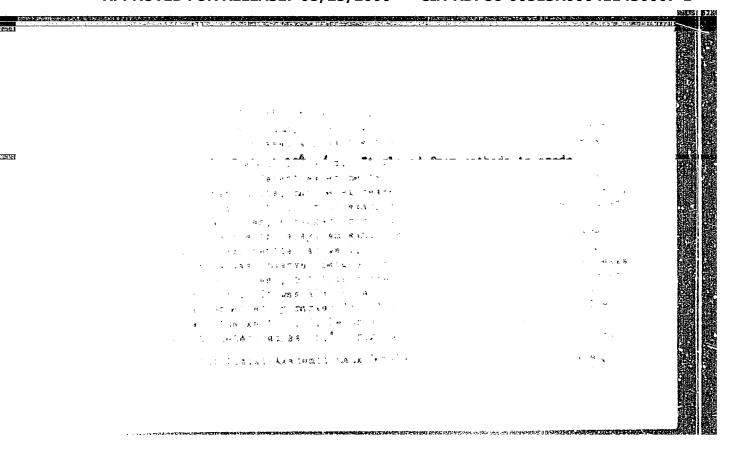


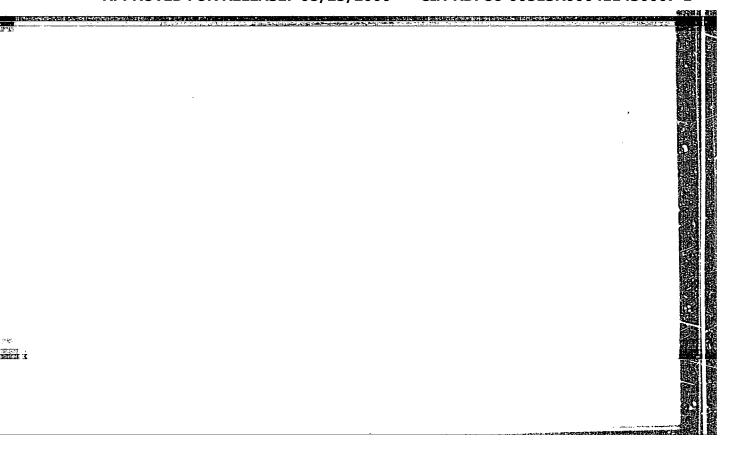












SOV/169-59-4-4033

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 4, p 123 (USSR)

Dudnik, V.S., Kashcheyev, B.L., Lagutin, M.F., Lysenko, I.A. AUTHORS:

The Measurement of the Meteor Velocity by the Diffraction Method TITLE:

PERIODICAL: Mezhdunar. geofiz. god., Inform. byul., 1958, Nr 1, pp 51 - 62

(Engl. Res.)

ABSTRACT: The Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnic Institute) performed radar measurements of the meteor velocity using the pulse method. The changes of the distance to the meteor cause an interference of the reflected waves and echo amplitude variations. Hence, the meteor velocity can be found after having determined the distance to the meteor. The paper

contains a description of the principal circuit diagram of the device used for studying the meteor stream of the Geminids. A velocity of 35 ± 2.5 km/sec was obtained for the meteors of this

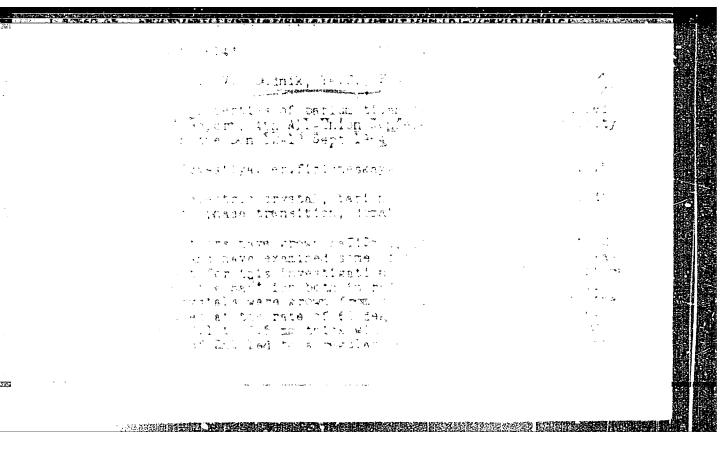
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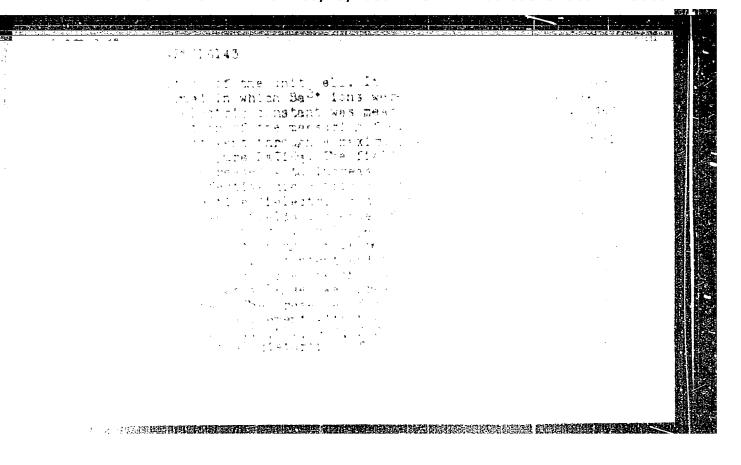
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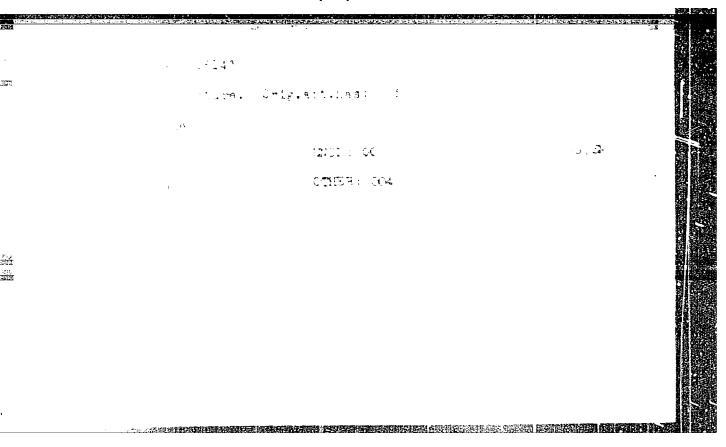
SINYAKOV, Ye.V.; DUDNIK, Ye.P.

Ferroelectric properties of SrMb₂O₆ = 0.5 YbFeO. Fig. twer. tela 4 no.10:2971-2972 0 '62. (MIRA 15:12)

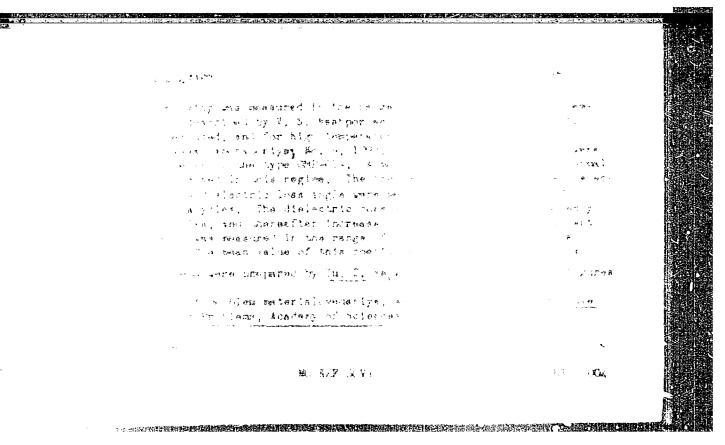
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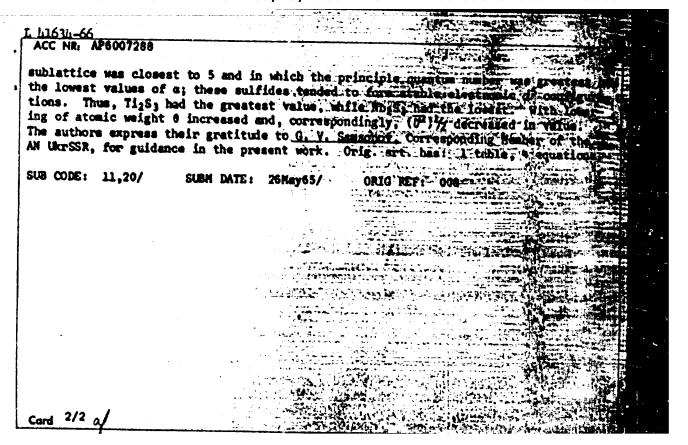
AUTHOR: Paderpo, Yu. B.; Dudnik, Ye. M.; Andreyeva, T. V.; Barantseva, I. G.; Yupko, V. L.

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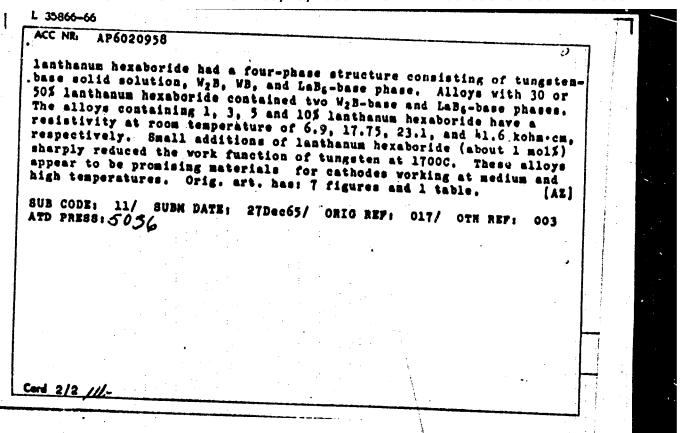
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TOPIC TAGS: sirconium carbide, hafnium compound, tantalum compound, niobium compound, heat expansion, the system of the system o

/ENT(m)/ENP(w)/T/ENP(+)/per IJP(c) JD SOURCE CODE: UR/0226/66/000/002/0060/0062 L 41634-66 11634-66 EVT(1) ACC NR. AP6007288 AUTHOR: Dudnik, Ye. M.; Ogenesyen, V. Kh. ORG: Institute of Haterial Science Problems, AN UkrSSR (Institut problem material vedeniya AN UkrésR) TITLE: Thermal expansion of some transition metal sulfides SOURCE: Poroshkovaya metallurgiya, no. 2, 1966, 60-62 TOPIC TAGS: sulfide, transition metal sulfide, thermal expansion, metal physics, elastic modulus, melting point, elastic property, electron shell, quantum theory ABSTRACT: Experimental thermal expansion coefficients of the transition metal sulfides Ti2S2, ZrS2, Nb2S3, G-TaS2, Cr2S3 and MoS2 were obtained and related to the cherecteristic temperature 0, the root-mean-square amplitude of elastic oscillations $(\mathbb{P}^2)^{1/2}$, the fusion temperature T_s and the elastic modulus B_s . Theoretical equations are given relating E, 0, V and T, to a-the coefficient of thermal expansion. Expend mental values of a were determined (within 4.5-5% accuracy) on a quarts dilatometers under argon at temperatures ranging from room to 1100°C. The relative longitudinal expansion obeyed a linear law. The value of a decreased with increase in the order number of the transition metal. Sulfides in which the number of d-electrons in the Cord 1/2



3966-66 EMP(e)/EMT(m)/EMP(w)/T/EMP(t)/ETI ACC NR. AP6020958 13+(c) BOURCE CODE: UR/0226/66/000/006/0017/0023 (A) AUTHOR: Sameonov, C. V.; Lapshov, Yu. ...; Podchernyaveva. Pomenko, V. 6.; Yerosov, Yu. I.; Dudnik, Ye. M. ORG: Institute of the Problems of Material Science, AN Ukrssk (Institut TITLE: Production and physical properties SOURCE: Poroshkovaya metallurgiya, no. 6, 1966, 17-23 of alloys of the W-LaB, system TOPIC TAGS: tungsten base alloy, lanthanum hexaboride containing chier, tungsten boride contains alloy, abley, physical property, ABSTRACT: 88k tuhnsten-vase alloys co 50 mol\$ lanthanum hexaboride were prepared from alloy powder with a particle size of 50 M by hot compacting in an argon atmosphere in graphite molds coated with boron nitride. It was found that the reaction of tungsten with lanthanum hexaboride results in decomposition of the latter and in the formation of W2B and WB borides. Hetallographic and x-ray diffraction analysis showed that alloys containing 1, 3, or 5% lant/anum hexaboride had a two-phase structure consisting of tungsten-base solid solution and tungsten boride (W2B) and a microhardness of 620, 597, and 535 dan/mm2, respectively. Alloy with 10%



06482-67 ENT(B)/ENP(B)/ENP(B)/ETI IJP(c) MH/JD ACC NRI AP6028294 SOURCE CODE: UR/0363/66/002/006/0980/0983 AUTHOR: Dudnik, Ye. M.; Lashkarev, G. V.; Paderno, Yu. B.; Obolonchik, V. A. CRG: Institute of Materials Science Problems, Academy of Sciences, UkrSSR (Institut problem materialovedeniya Akademii nauk UkrSSR) TITIE Thermal expansion of rare earth chalcogenides SOURCE: AN SSSR. Isvestiya. Neorganicheskiye materialy, v. 2, no. 6, 1966, 980-983 TOPIC TAGS: thermal expansion, selenide, telluride, rare earth compound ABSTRACT: The temperature dependence of the relative elongation of EuS, EuSe, Ia2Se3, CogSeg, Proseg, NdoSeg, NdoSeg, SmoSeg, SmoSeg, Prosegrature and SmoOgTe was studied in the range from room temperature to 800 k. The measurements were made with a quarte dilatometer. In passing from the rare earth metals to their compounds with an ionic-covalent bond character, the thermal expansion coefficient a increases (with the exception of europium), apparently because of an increased anharmonicity of the thermal vibrations of the crystal lattice. The value of a of the chalcogenides increases in the rare earth series and in passing from sulfides to selenides; this is also due to increased anharmonicity. The a values of exytellurides are intermediate between those of exides and sesquisulfides. From the α values, the Debye temperatures θ of the compounds were calculated and found to decrease with increasing atomic number of the rare earth metal (except in the case of samarium). The melting points of the sesquisele-Card 1/2 UDC: 546.651/659'851:536.413

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AUTHOR: Samsonov, G. V.; Lapshov, Yu. K.; Podchernysyeva, I. A.; Fomenko, V. Yerosov, Yu. I.; Dudnik, Ye. H.	8.1° B		
	tut		
ORG: Institute of Material Science Problems, Academy of Sciences SSSR (Instiproblem materialovedeniys akademii nauk UKrISR) TITLE: Some physical properties of the M-LaBs alloys			
TITLE: Some physical properties of the w-Lang alloys		1	
SOURCE: AN SSSR. Isvestiya. Neorganicheskiye materialy, v. 2, no. 8, 1966, 1	454-1459		
TOPIC TAGS: solid mechanical property, tungsten, boron, lanthanum, x ray, all phase composition, phase diagram	Lloy,		
ABSTRACT: The phase composition of several W-LeBs alloys (1-50 mole & LeBs) ied by x ray technique Microhardness, specific electrical resistivity in 29 range, and thermal emission parameters and emanation coefficients in the 120 range. The alloy samples were pre-	0-1950°K		
range were determined for various wells allowed atmosphere. The x ray a hot pressing of suitable Welse mixture in an argon atmosphere. The x ray a were made with a URS-501M apparatus provided with Cuka-emission source. It that during the interaction between W and Language occurs a simultaneous for the during the interaction between W and Language of the These processes we	nalyses was found formation was accompa		and the second
nied by an increase in the specific electrical resistant		ļ	ţ
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found that an addition of as li	ittle as 1 mole % LaB, to W results in a sharp decline. This effect is explained in terms of the declining.	
in the samples work function, statical weight of the stable (turn, to an easy thermal excit)	This effect is explained in the tungeten atoms leading, in it is not the metals' non-localized electrons. Orig. a	
has: 5 figures and 3 tables.	21Jul65/ ORIG REF: 015/ OTH REF: 002	
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s/0078/64/009/003/0530/0533

ACCESSION NR: AP4019484

AUTHORS: Vekhov, V. A.; Dudnik, Ye. P.; Marin, K. G.

TITLE: Production of silicon dioxide by hydrolysis of tetraethoxysilsne

SOURCE: Zhurnal neorg. khimii, v. 9, no. 3, 1964, 530-533

TOPIC TAGS: tetraethoxysilane, hydrolysis, silicon dioxide, production, hydrolysis catalyst, reaction rate, HOL catalyst, ammonia catalyst

ABSTRACT: The hydrolysis of tetraethoxysilane in aqueous solution in the presence of a catalyst that is easily separable from the product; and the reaction rates and yields of SiO2 were investigated. On hydrolyzing with a 1% HOl solution, a 1:1 tetraethoxysilane:water hydrolyzing with a 1% HOl solution, a 1:1 tetraethoxysilane:water nydrolyzing with a 1% HOI solution, a 1:1 tetraethoxysilane:water ratio is optimum. Increasing HOI concentration from 0.0097 to 3.65% ratio is optimum. Increasing HOI concentration from 0.0097 to 3.65% ratio is optimum. required to complete hydrolysis. A satisfactory increases the time required to complete hydrolysis. A satisfactory white SiO₂ was obtained with 0.186% HOI in 8 minutes; therefore 0.2% white SiO₂ was obtained with 0.186% HOI in 8 minutes; therefore 0.2% or stronger HOI is suggested. With ammonia, a 1:1 reactant ratio is also optimum. Reaction temperature is 30-400 to prevent excessive also optimum. Reaction temperature is 30-400 to prevent excessive volatilization of the ammonia. With 0.94% ammonia, 98% hydrolysis was obtained in 55 minutes. With lesser concentrations the hydrolysis والمعالم والمتعالم والمتعالي والمتعالم والمتعا

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ACCESSION NR: AP4019484

is slower and with higher ammonia concentration, the yield of SiO₂ drops rapidly. Time is also an important factor: with 0.826% ammonia, only 25% hydrolysis was achieved in 20 minutes, and 98% in 140 minutes. Ammonia concentration should therefore be no greater than 0.9%. The more rapid hydrolysis with the same concentration of HCl is explained by the fact that it is a stronger electrolyte than ammonia. The presence of hydroxyl ions, and hence the ammonia method, is considered preferable to the presence of hydrogen ions. Orig. art. has: 7 tables.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Motallurgical Institute); Dneprovskiy titano-magniyeyay savod (Dneprovsk Titanium-Magnesium Plant)

SUBMITTED: 21Feb63

DATE ACQ: 31Mar64

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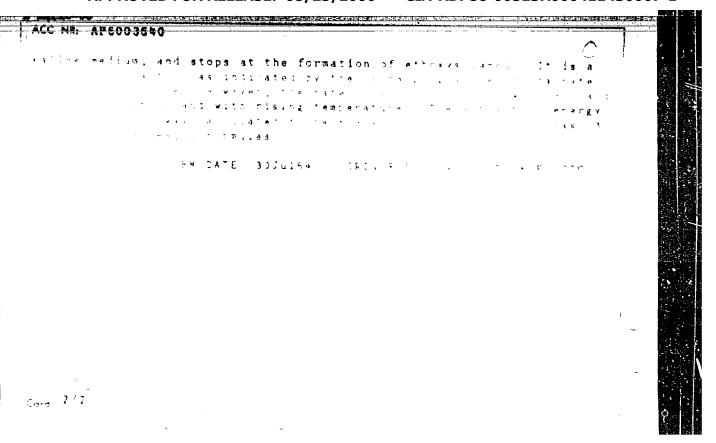
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OTHER: 003

Card 2/2

ACC NR. APEGGGEQ	SOURCE CODE: UR/0078/6	5/010/010/2359/2362
CARRY V A.	Dudnik, Te P. Rumyanianya	
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TITLE: Hydrolysis of to	straethoxysilane	
	nicheskoy khimii, v. 10, no.	10, 1965, 2359-2362
Tipi TAGS hydrolysis	, silane, hydrochloric acid.	ammonia
in the bydrolys	is of tetraethoxys[lane was same] amounts of water than	nudied at 24 and contract (and
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Site	OC, H,), < 3H,O ^{RO} + 3C, H,OH & SOON ,	· • ¹¹ •
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NUDRIK, Yu.I.; USOLITSEY, E.A.

Herring in the sastern part of the baring sea, findy Valle w/: 225-229 164. (MIRA 18:5)

1. Tikhookeanskiy nauchmo-issledovatel'skiy institut morskogo rybnogo khosyayatva i okeanografii.

DUDNIK, Yu.V.

Induction of a lysogenic culture of Micrococcus lysodeikticus by antibiotics selectively inhibiting deoxyribonucleic acid synthesis. Antibiotiki 10 no.2:112-117 F 165.

(MIRA 18:5)

1. Laboratoriya izyakaniy i kul'tivirovaniya produteshtov (zav. - pref. G.F.Gauze) Instituta po izyakaniyu novykh antibiotikov ANNI SSSR, Moskva.

SUBMIX. TOTAL CLUEZ, C.C.

Study of the mechanism of the actich of hrunecayoin.

Antibiotiki 10 me. 10:000 00 0 165. (MIRA 18:12)

1. Institut po isyskaniyu novykh antibietikov i Institut morfologii shivotsykh imeni A.M. Severtsova, Hoskva. Submitted Febr. 9, 1965.

3/135/60/000/010/010/015 A006/A001

AUTHOR:

Dudnikov, A. D.

TITLE:

Roller Welding of Polyethylene Films

PERIODICAL: Swarochnoye proizvodstvo, 1960, No. 10, pp. 27-29

A series of studies were made at <u>VNIIESO</u> on the roller welding of TEXT: polyethylene films and on developing the proper equipment for this purpose. Roller welding producing 4 - 6 mm wide, straight, hermetic seams on 50 - 80 pc thick polyethylene films may be carried out by heating with one-sided heat supply. The films are welded between an upper and lower roller. The lower roller is heated by electric current and rotated by a motor and the upper roller exerts the necessary pressure on the film to be welded. To prevent sticking of the film to the heated roller, a gasket is placed between them. Welding is performed by heat passed from the lower heated roller through the gasket and the lower film to the upper film. The following conditions were applied: film thickness 60 µ; temperature of the lower roller; 130 - 150 C; force at the upper roller: 2-5 kg; revolution speed of the lower roller: 5 - 10 m/min. An increased number of films may be welded at elevated temperature and reduced

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S/135/60/000/010/010/015 A006/A001

Roller Welding of Polyethylene Films

speed. At 250°C and 2-3 m/min revolution, 8 layers were welded. For large scale production VNITEEO recommends welding on an endless, moving, consecutively heated and cooled metallic strip. In this process gaskets are not needed and power consumption is low. An installation for this purpose is shown in Figure 1. A spring steel, stainless steel or bronze strip, whose ends are soldered together, embraces the lower heated roller and is tightened by a tension roller. The strip moves between the rollers on a water-cooled condenser. Fusion of the film and formation of the seam is performed on the heated section of the strip; cooling and removing of the film welded, on its cooled section. The strip moves at a speed of 1-20m/min. The lower roller is heated from a heater and rotated from a d-o motor. The upper roller rotates freely applying to the film the compulsory force produced by a spring. It has a fluoro-plastic-4 rim to prevent adherence of the film. Smashing of the molten film is prevented by a gap set up between the rollers. The electric circuit of the system is shown in Figure 2. The total power is 500 watt. The motor is fed from a MATP-2 (LATR-2) type ATP1 (ATR1) autotransformer. The temperature is controlled by a chromel-drop thermocouple and a millivoltmeter. The temperature of the lower roller is automatically maintained at the required level by a bimetallic control relay and two accessory relays. Water consumption of the cooler is controlled by a hydraulic relay and a signal lamp. The water consump-

Roller Welding of Polyethylene Films

S/135/60/000/010/010/015 A006/A001

tion required is 0.5 - 1 1/min. Welding may be performed at a speed of 20 m/min and above. A model of the described installation is now operating at a Leningrad plant. Good results have been obtained there in welding articles made of polyethylene and polyamide films./ There are 4 figures.

ASSOCIATION: VNIIESO

Card 3/3

1/1

USSR

ONUFRIYEV. V. P., SHVETSOV. Yu. F., DUDNIKOV. A. I., PRONIN, I. A., ZAKHAROV, V. M., and Kravets, I. K., All-Union Solentific Research Institute of Poot-and-Mouth Disease, USSR

"Effect of Immune Serum on the Formation of Active Immunity to Foot-and-Mouth Disease"

Sofia, Veterinarna Sbirka, Vol 63, No 11, pp 5-9

Abstract: Immune serum is used to produce passive immunity in cattle in regions in which foot-and-mouth disease occurs. The effect of preceding administration of immune serum on the formation of active immunity upon injection of live virus of type 0 was tested on mice. The immune serum was derived from cattle that had recovered from foot-and-mouth disease after infection with type 0 virus. It was established that administration of the immune serum to the mice 5-7 days before immunization with live virus prevented formation of active immunity in them, while administration of the immune serum 10, 15, 20, or 30 days before immunization with the virus had no effect on the development of active immunity. On administration of immune serum to the mice, the passive immunity persisted for 7 days. Tables.

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8/181/62/004/010/052/063 B102/B104

1,444

AUTHORS:

Sinyakov, Ye. V., and Dudnik, Ya-Pr

TITLE:

Seignettoelectrical properties of SrNb₂0₆-0.5 YbFeO

PERIODICAL: Fizika tverdogo tela, v. 4, no. 10, 1962, 2971 - 2972

TEXT: A new compound showing at the same time seignettoelectrical and ferrimagnetic properties was synthesized: SrNb206-0.5YbFe03. The temperature of preannealing was 1100°C, that of final annealing 1270°C. A proper choice of the final cooling rate is of great importance to ensure the desired properties in the ceramic. The seignettoelectrical state was verified by measurements of $\pm(t)$ between -160 and +160°C and of $\epsilon(E)$ between 0 and 12 kv/cm, the magnetic properties by determining the initial magnetic permeability at 7.8 Mc/sec. This was equal to 5 at room temperature. There are 2 figures.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet ($\exists n$ (Dnepropetrovsk State University)

SUBMITTED:

May 21, 1962

Card 1/1.

YAROSLAVSKIY, V., brigalir moddifination (Lobnya Moskovskoy obl.); SIPRIKOV, V.

(pos,Zavolsh'ye Gor'Kovskoy obl.); FAL'BAUM, G. (Odessa);
STAREN'KIY, S. (Saratov, Vol'skaya, 91, kv.7); DUDNIKOV, A.

(Krasnodar); UGLEV, P. (Perm'); MEDOVAYA, A., Insh. (Leningrad);
TRIGUBOVICH, A., freserovshchik (Dsershinsk, Minskoy obl.);
FINOV, G., student (Tula); YAROVLEV, A., slesar' (Moskva);
MALININA, N. (Tallin); CHEPAYKIN, G., insh. (Moskva)

Advertiging board. Izobr.i rats. no.5 (201) [38-39 '63.

(MIRA 16:7)

8/135/61/000/006/006/008 A006/A106

AUTHOR:

Dudnikov, A.D., Engineer

TITLE:

Butt welding thermoplastic films by heat pulses

PERIODICAL:

Svarochnoye proizvodstvo, no.6, 1961, 30 - 32

TEXT: VNIIESO developed a new method of butt-welding thermoplastic films by heat pulses (Pigure 1). This method, where heat is supplied by pulses, is more economical than welding with continuous heat supply by heat carriers of constant temperature. Excessive heating of the film and of the welding equipment is prevented, so that artificial cooling can be eliminated. Butt welding eliminates cutting of the film in the weld-adjacent zone; the joints are stronger, the seam width is less and material consumption is reduced 7 - 10 times as compared to overlap welding. Pulse heating combined with butt type weld formation makes it possible to weld films of different thermoplastic materials in a wide range of thickness independent of their electrical properties. Various combinations as to the number or thickness of films may be performed; the seam length is unlimited. A gap between the film and the heater prevents sticking of the film and eliminates the use of backing plates. A laboratory model of a welding machine

Card 1/3

Butt welding thermoplastic films by heat pulses

8/135/61/000/006/006/008 A006/A106

was designed for this new method (Figure 3). Film to be welded 1 is clamped between upper movable jaw 2 and lower fixed jaw 4 in such a manner that a gap is formed between the film edges and strip-heater 3, parallel-arranged to the jaws. The heater is in a plane, perpendicular to the plane of the film clamping. Clamping is performed with the aid of two pull rods 6 and pedal mechanism 7. Lifting of the upper jaw to release the film after welding, is made with the aid of two returning springs 5. To assure uniform heating, the heater is fixed on insulators 7. Tightening spring 8 prevents sagging of the heater. The electric circuit of 9. Tightening spring 8 prevents sagging of the heater. The electric circuit of the unit is described. The heating current is step-regulated within 15 - 30 amps. Maximum voltage is 24 v. Duration of pulses depends on the thickness and type of the material welded and is regulated within 0.3 - 5 sec. The described machine was used for welding various articles, such as a hood for a growing tree; hydroinsulating covers of cellars; hermetic cheese containers, polychlorvinyl and polyethylene bags, etc. There are 6 figures.

ASSOCIATION: VNIIESO

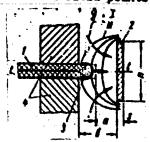
Card 2/3

Butt welding thermoplastic films by heat pulses

3/135/61/000/005/006/008 A006/A106

Figure 1:

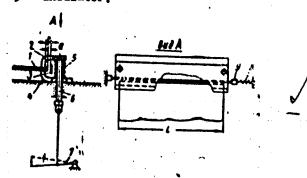
Schematic representation of the formstion of a butt weld in the thermal field of a strip heater; 1- film to be welded; film to be welded; 2 - upper jaw; 2 - strip heater; 3 - butt joint; 4 - 3 - heater; 4 - lower jaw; 5 upper and lower clamps; I - isothers of the thermal field; 0 - temperature gradient of thermal field points,



Card 3/3

Pigure 3:

Kinematic scheme of thermal butt welding with pulse heat supply: 1 -3 - heater; 4 - lower Jaw; 5 spring; 6 - pull rods; 7 - pedal mechanism; 8 - tightening spring; 9 - insulator,



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ACC NR. AP6022590 (A,N) SOURCE CODE: UR/0346/66/000/001/0106/0	24.	
	B	
ORG: All-Union Scientific Research Foot-and-Mouth Disease Institute (Vsesoyusnyy		
nauchno-issledovatel'skiy yashohurnyy institut)		
TIME: Determination of the type and variant of foot-and-mouth disease virus as to basis for specific prophylaxis	he	
SOURCE: Veterinariya, no. 1, 1966, 106-107		
TOPIC TAGS: foot and mouth disease, virus, immunity		
ABSTRACT: The authors note the plurality of the foot-and-mouth disease		
virus and the resulting importance of daily for memory control measures.		
virus and the resulting importance of early did determined in the resulting importance of early did determined in the resulting importance of early did determined in the soviet Union. They support their case with citations of the non-Soviet literature, observing they support their case with citations of the non-Soviet Union.		
They support their case with mitations of the soviet Unions		
that this question had been insufficiently studied in which the interpretation and the studies for type and variant identification. Since identifiantly review the methods for type and variant identification. Since identifiantly review the methods for type and variant identification of immune animals.	1	
They review the methods for type and variant identification of immune ani- cation with the complement fixation test and cross infection of immune ani-	<u> </u>	
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DUDNIKOV, A.I., mladshiy nauchnyy so trudnik

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Determining type variants of the foot-and-mouth disease virus.

Visnyk sil'hosp.nauky 4 no.8:95-98 Ag '61. (MIRA 14:7)

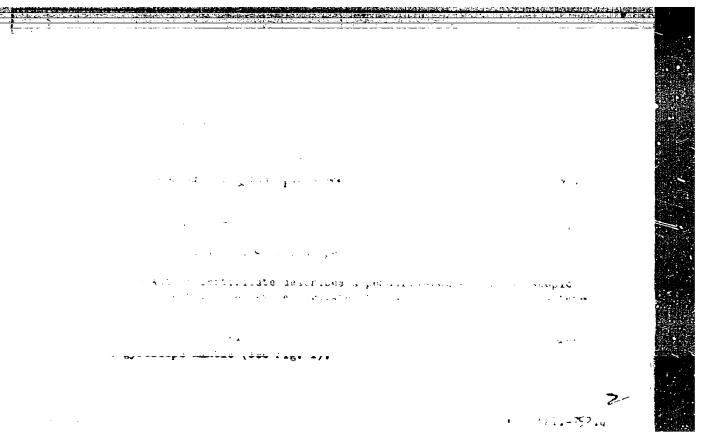
1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimentel'noy veterinarii.

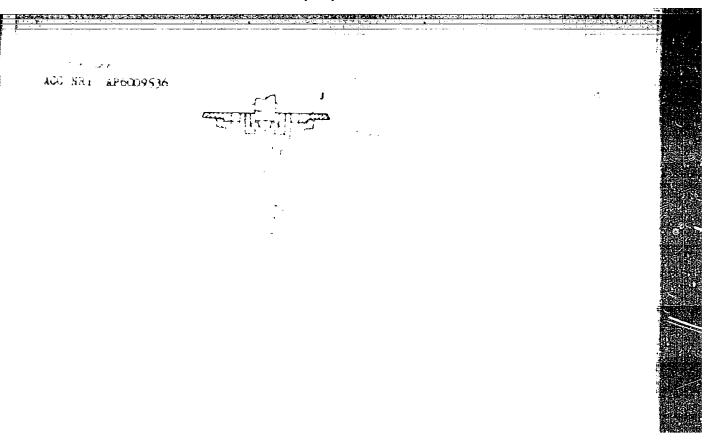
(Foot-and-mouth disease)

KLENINA, N.V.; POSTYAKOV, A.P.; DUDNIKOV, A.I.

Preparation of foot-and-mouth disease virus antigens for gel precipitin tests. Acta virol. 8 no.5:478 S 164.

1. The Ukrainian Scientific Research Institute of Experimental Veterinary Medicine, Kharkov, Ukrainian S.S.R.





PEDOSETEV, Grigoriy Anisimovich; DUDEIKOV, D.I., red.; KHLOBORDOV, V.I., tekhn.red.

[In the remote, mysterious taigs; notes of an explorer] Glukhoi, nevedomoi taigoiu; sapiaki puteshestvennika. Krasnodar, Krasnodarskoe knishnoe isd-vo, 1960. 329 p.

(NIRA 14:3)

(Siberia--Description and travel)

DUDNING . G.

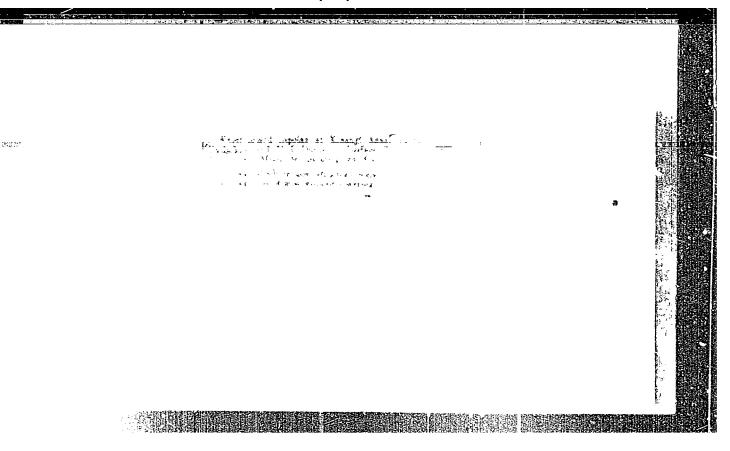
The tex thook "Accounting on collective farms" by S.T.Grigor'ev and others; part III. G.Dudnikov. Bukhg.uchet 14 [i.e.16] no.9:60-62 '57. (Gollective farms--Accounting)

DUDNIKOV, I. (g. Nikolayev)

Disaster has been averted. Posh.delo 7 no.6:27 Je 161.

(MIRA 14:6)

(Petroleum industry—Fires and fire prevention)



DUDWIKOV, I.A., inshener; DURMEY, N.I., inshener.

Automatic molding mix loading into measuring hoppers. Lit. proisv. no.9:28-29 3 56. (NLBA 9:11)

(Foundry machinery and supplies)

DUDWIKOV, I.A., inshener., DURWEY, M.I., inshener. Increasing the capacity of soaking furnaces, Lit.proisv. no.4: 28 Ap 157. (MLRA 10:5) (MIRA 10:5)

(Foundry machinery and supplies)

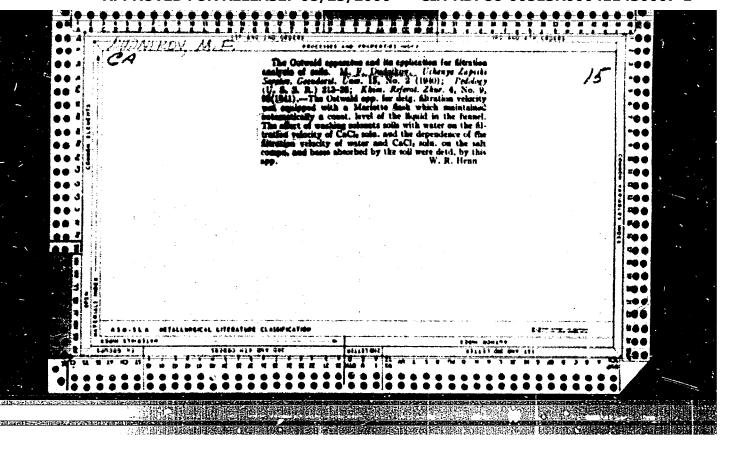
SHIPRIN, G.Ye., dotsent; PODKATILOV, K.Ye., inzh.; DUDNIKOV, I.A., inzh.

Using perlite wrought iron in agricultural machines. Trakt. i sel'khozmash. 33 no.5:42-43 My '63. (MIRA 16:10)

1. Rostovskiy institut sel'skokhozyaystvennogo mashinostroyeniya (for Shifrin). 2. Gosudarstvennoye spetsial'noye konstruktorskoye. byuro po sel'skokhozyaystvennym i vinogradnikovym mashinam (for Podkotilov). 3. Zavod "Krasnyy Aksay" (for Dudnikov).

DUDNIKOV, I.A.

Characteristics of producing malleable cast iron at the Plant "Krasnyi Aksai". Lit. proizv. no.1:34-35 Ja 165. (MIRA 18:3)



DUDNIKOV, M.V.

Evaluating multilayer high-grade racing skis. Der. prom. 14 no.7:22-23 Jl 165. (MIRA 19:1)

l. Vologodskiy mebel'nyy kombinat.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430007-1

L 33247-66 EWT(1) TO

SOURCE CODE: UR/0280/65/000/005/0058/0063

AUTHOR: Dudnikov, N. L.

20

ORG: None

TITLE: The "viability" of contact circuits in the component-by-component reserving technique

SOURCE: AN SSSR. Investiya. Tekhnicheskaya kibernetika, no. 5, 1965, 58-63

TOPIC TAGS: contact circuit, reliability engineering, reliability theory, circuit reliability

ABSTRACT: The author investigates a comparative method for the evaluation of the reliability of contact circuits in the component-by-component reserving technique. The method is based on the employment of the theory of Markov chains with a discrete model of the random process for the onset of failures. The author obtains "viability functions" for a description of reliability circuits at any relationships of the intensities of failures for zero and unity. The functions are presented in Table 1. Orig. art. has: 1 table, 1 figure, and 15 formulas.

SUB CODE: 14 / SUBM DATE: 20Apr64 / ORIG REF: 002 / OTH REF: 002

Cord 1/2

	•	i a	b)	functions" for optimal reserv	Recommended	
•	•	No.of	Connecting	Viability function	$\phi = \frac{\lambda_0}{\lambda_1}.$	•
		2 1 2 2 3 4 4 5 6 1 2 2 2		f = 1.5 - h f = 0.5 + h $f = 1.633 - 2.5k + h^0$ $f = 1.167 + 0.5h - h^0$ $f = 0.667 + 1.5k - h^0$ $f = 0.333 + 0.5k + h^0$ $f = 2.083 - 4.333 + 3.5h^0 - h^0$ $f = 1.563 - 0.567h - 1.5h^0 + h^0$ $f = 0.916 + 2.333h - 0.5h^0 + h^0$ $f = 0.75 + 1.667h - 0.5h^0 - h^0$ $f = 0.417 + 0.667h + 1.5h^0 - h^0$ $f = 0.25 + 0.333h + 0.5h^0 - h^0$ $f = 0.25 + 0.25h - 0.334h + 1.5h^0 - h^0$ $f = 0.25 + 0.25h - 0.334h + 1.5h^0 - h^0$	0.15 + 0.166	
		5		$ \begin{cases} $	1.41+2.57 2.57+5.00	

DUDNIKOV S.G.

Subject

USSR/Engineering

AID P - 5004

Card 1/2

Pub. 110-a - 6/17

Authors

: Davydov, N. I., Kand. Tech. Sci., I. P. Dudnikova, S. G. Dudnikov, B. N. Mel'nikov, Engineers

Title

: Methods of determining the frequency characteristics of industrial control objects.

Periodical

: Teploenergetika, 9, 35-42, S 1956

Abstract

: Frequency characteristics are often considered in the investigations of the industrial installation performance and in the solutions of complicated problems of automatic control. The methods described here for determining the frequency characteristics are based on the excitation of oscillations in a closed system of automatic control. The oscillations start by a harmonic signal at the control input. An example of the use of this method is presented for testing the dynamics of an once-through boiler.

10 diagrams. 8 references.

AID P - 5004

Teploenergetika, 9, 35-42, S 1956

Card 2/2 Pub. 110-a - 6/17

Institution: All-Union Heat Engineering Institute and Moscow Regional Power System Administration.

: No date Submitted

DUDNIKOV, S.G.

MAYYDOV, M.I., kand. tekhn. nauk; DUDWIKOV, S.G., insh

Regulation system of a uniflew type beiler for maintaining steam pressure. Tepleenergetika 4 ne.11:63-67 N 157. (MIRA 10:10)

1. Veseyusnyy tepletekhnicheskiy institut.
(Boilers)

DUDNIKOV, V., inzh.

Stand for assembling ZIL motortruck chasmis. Avt.transp. 40 no.10:32-33 0 '62. (Machine-shop practice)

SAL'NIKOV, V., inzh.; DOLGOV, V., inzh.; DUDNIKOV, V.; CHUVANOV, V.; VAL'KOV, K.

Exchange of experience. Avt.transp. 42 no.12:49-51 D 164. (MIRA 18:4)

DUDNIKOV V.P.; MIKHEYEV, V.P.

Action of the ions of some metals on Dreissena. Trudy Inst. biol. vnutr. vod. no.7:71-75 '64.

(MIRA 18:2)

1. Kuybyshevskaya stantsiya Instituta biologii vnutrennikh vod AN SSSR i Volshskaya gidroelektricheskaya stantsiya imeni V.I. Lenina.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411430007-1

E 02273-67 EMT(m)/T ACC NR: AP6025251

SOURCE CODE: UR/0057/68/036/007/1239/1240

AUTHOR: Dimov.G.I.; Dudnikov.V.G.

ORG: Institute of Muclear Physics, Novosibirsk (Institut yadernoy fiziki)

TITLE: Charge-changing collision cross sections of approximately 1 MeV negative hydrogen ions in several gases

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 7, 1239-1240

TOPIC TAGS: hydrogen, charge exchange, hydrogen ion, positive ion, negative ion, atom, gas target

ABSTRACT: The authors have measured the cross sections of H2, He, N2, CO2, C3H8, CC12F2, and SF4 for the H -H roactions of 0.9, 1.1, and 1.3 MeV H ions. The measurements were undertaken in connection with charge exchange injection of protons into storage rings. The H beam from a Van de Graaf accelerator was magnetically analyzed, focused with a quadrupole lons, passed through a charge exchange chamber of 21 cm equivalent length, and separated into H, H, and H beams with a magnetic field. The H and H beam intensities were measured with Farnday cups, and the H beam intensity was measured with a calorimeter. The charge exchange chamber was separated from the rest of the apparatus by 0.5 cm diameter 5 cm long ion ducts, and gas pressures up to 10 mm Hg in the charge exchange chamber did not appreciably affect the vacuum in the remainder of the system. Measurements were made at target thicknesses from

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B CODE: 20 SUBM DATE: 24Aug65 ORIG. REF: 001 OTH REF: 001	ere less O yield w table.	as appro	sums of the cro kinately 50% for	ss section	The cross s of thei	eection r const	ns of ituent	sections, the complex atoms. The t. has: 1	mid both molecul ne maximu figure a	30
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ACC NR: AP7002137

SOURCE CODE: UR/0050/66/000/012/0003/0009

AUTHORS: Burtsev, A. I. (Candidate of physico-mathematical sciences); Vetlov, I. P. (Candidate of physico-mathematical sciences); Dudnikov, V. N.; SonechKin, D.M. (Candidate of physico-mathematical sciences)

ORG: Hydrometeorological Scientific Research Center of the SSSR (Gidrometeorologicheskiy nauchno-issledovatel'skiy tsentr SSSR)

TIME: "Molniya-I" transmits images of the earth from outer space

SOURCE: Meteorologiya i gidrologiya, no. 12, 1966, 3-9

TOPIC TACS: meteorologic satellite, tv camera, cloud formation, earth planet, weather map / Molniya-I meteorologic satellite

ABSTRACT: The authors discuss the television images of the earth, transmitted from the Molniya-I satellite. The cameras were mounted on the outside of the housing of the satellite and had interchangeable objectives. These television cameras permitted photographing in the yellow-red region of the spectrum, which increased the quality of the images of clouds and the earth's surface. Photographs taken at 1500 hrs Moscow time on 30 May 1966 at an altitude of 30 000-40 000 km are shown. Analysis of the television photographs shows a number of structural peculiarities of large cloud formations that determine the weather over a large territory. Orig. art. has: 2 photographs and 1 map.

SUB CODE: 0 / SUBM DATE: 19Aug66

Cord 1/1

UDC: 629.195.1:551.5

25906

S/123/61/000/013/006/025 A052/A101

AUTHOR:

Dudnikov, V. T.

TITLE:

Investigating the depth of cold hardened layer at machining metals

by cutting

PERIODICAL:

1.1100

Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1961, 28, abstract

13B158 ("Tr. Kuybyshevsk. aviats. in-t", no. 10, 1960, 41-62)

TEXT: An X-ray diffraction study has been carried out of the depth of the cold hardened layer arising at various kinds of machining 12%2444 (12%12%4A), 40%14MA (40%11MA) steels and 598 alloy. For the X-ray diffraction study an industrial equipment with Py-285 (RU-285) X-ray unit and a demountable ionic X-ray tube has been used. The intensity of cold hardening has been studied by measuring the microhardness of the surface layer and its changes over the depth. It has been established that the surface layer 10-30 microns deep, making up 10-30% of the hardened layer depth, is subjected to the most intensive cold hardening. At the front and plain milling the depth of the hardened layer is 15-95 microns. The maximum depth of the hardened layer has 40%11MA steel. At drilling, the depth of the hardened layer is 80-135 microns for 12%12N4A steel, 105-135 microns for 40%11MA steel and 60-180 microns for 3% 598 (EI598) alloy. At grinding the

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25906

S/123/61/000/013/006/025 A052/A101

Investigating the depth of cold hardened ...

depth of the hardened layer is 0.02 - 0.04 mm for 12XH4A (12KhN4A) steel and 0.01 - 0.02 mm for EI598 alloy. A countersinking, reaming and broaching the depth of the hardened layer is 20-50 microns. The microhardness of the cold hardened layer drops sharply with its depth, the most intensive hardening being observed on the depth up to 20 microns. No connection between the depth of the hardened layer and microhardness of the surface layer has been established. There are 9 figures and 5 references.

I. Brozgol

[Abstracter's note: Complete translation]

Card 2/2

8/123/62/000/013/011/021 A004/A101

AUTHOR:

X-ray diffraction studies of the depth of the workhardened layer

in metal cutting

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1962, 54, abstract 13B322 (In collection: "Kachestvo poverkhnosti detaley mashin. v. 5." Moscow, AS USSR, 1961, 260 - 263)

The author presents the results of X-ray diffraction studies of the depth of the workhardened layer of the steel grades 12 X 2 H 4 A (12 Km 2 N 4 A), 40 XHMA (40KhNMA), MIX 15 (ShKh15) and of the heat-resistant 3H 598 (KI598) alloy having undergone different kinds of machining. It was found that with ductile materials the depth of the workhardened layer grows with an increase in the depth of cut, which is the case with normalized low-carbon 12Kn2N4A steel and the ET598 alloy. With the normalized steel grades 40KhNMA and ShKhl5 the depth of cut does not affect the depth of the workhardened layer. With the hardened 40KhNMA grade steel the depth of the workhardened layer decreases with an increased depth of

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S/123/62/000/013/011/021 A004/A101

X-ray diffraction studies of ...

cut. At feeds of s=0.2-0.4 mm/rev the depth of the workhardened layer begins to grow. A sharp increase of the workhardened layer for BK 8 (VK8) tools takes place if s>0.4 mm/rev. The tool wear affects the depth of the workhardened layer only insignificantly. It is pointed out that, in machining the normalized steel grades $12\text{Kh}2\text{N}^4\text{A}$, 40KhNMA, 5KhN15 and the EI598 alloy, the depth of the workhardened layer is insignificant if sharp tools are used. If the 40KhNMA grade steel is machined at high feeds, the depth of the workhardened layer attains a value of h=0.14 mm (at s=0.8 mm/rev) and h=0.209 mm (at s=1 mm/rev). In drilling the $12\text{Kh}2\text{N}^4\text{A}$ grade steel the depth of the workhardened layer h=0.08-0.135 mm; for 40KhNMA grade steel h=0.105-0.165 mm and for the EI598 alloy h=0.06-0.18 mm. The author presents formulae establishing the dependence of the depth of the workhardened layer on the depth of cut, feed and cutting speed. There are 2 figures.

E. Dymova

[Abstracter's note: Complete translation]

Card 2/2

DJ/JD ENT(1)/ENT(m) AR6022147

SOURCE CODE: UR/0276/66/000/002/B121/B122

AUTHOR: Dudnikov. V. T.

TITLE: Analysis of statistical and dynamic characteristics of hydraulic automatic copying (tracking) systems with a single edge slide rod and a differential cylinder

SOURCE: Ref. zh. Tekhn mashinostr. Abs. 2B897

REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 20, ch. 1, 1965, 121-122

TOPIC TAGS: automatic control system, automatic copying, copying system

ABSTRACT: A functional blueprint of an automatic copying system and its construction methods are analyzed. Equations were derived for the motion of hydroamplifier, and structural blueprints of the system are given separately for the controlling action (the cutting forces at the rod being constant) and the disturbing effect (at zero control action). The qualitative characteristics of the system are analyzed. It was noted that for the automatic monitoring systems, the most significant qualitative dynamic characteristics are: 1) the nature and indicators of a transition process determining the corrections of profile reproduction at the surface transition sites, and 2) the stability of the system which determines its performance reliability and cleanness of

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UDC: 621, 9-503, 53-822

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the surface. Orig. art. has: L. Romancheva. [Translation	5 figures and a bibliography of 4 n of abstract]	reference items.	[AM]
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